

Search Forms

Search Results

Refine Search

Help

Search Results -

User Searches

| Preferences | Terms | Documents |
|------------------------|---|-----------|
| Logout | L5 and (numerical.ti. or numerical.ab. or number?.ti. or number?.ab. or logical\$2.ti. or logical\$2.ab.) | 131 |

Database:

US Pre-Grant Publication Full-Text Database
 US Patents Full-Text Database
 US OCR Full-Text Database
 EPO Abstracts Database
 JPO Abstracts Database
 Derwent World Patents Index
 IBM Technical Disclosure Bulletins

Search:

L6

Refine Search

Recall Text

Clear

Interrupt

Search History

DATE: Thursday, April 01, 2004 [Printable Copy](#) [Create Case](#)

| <u>Set</u> <u>Name</u> | <u>Query</u> | <u>Hit</u> <u>Count</u> | <u>Set</u> <u>Name</u> result set |
|---------------------------|---|----------------------------|---|
| side by side | | | |
| | DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ | | |
| <u>L6</u> | L5 and (numerical.ti. or numerical.ab. or number?.ti. or number?.ab. or logical\$2.ti. or logical\$2.ab.) | 131 | <u>L6</u> <i>Standard set</i> |
| <u>L5</u> | L4 and (fuzzy.ti. or fuzzy.ab. or probab\$7.ti. or probab\$7.ab. or uncertain\$4.ti. or uncertain\$4.ab.) | 376 | <u>L5</u> |
| <u>L4</u> | L3 and (rule?.ti. or rule?.ab.) | 1398 | <u>L4</u> |
| <u>L3</u> | (fuzzy or probab\$7 or uncertain\$4) and (numerical or number? or logical\$2) and rule? | 21690 | <u>L3</u> |
| <u>L2</u> | (fuzzy or probab\$7 or uncertain\$4) and (num\$6 or logical\$2) and rule? | 30368 | <u>L2</u> |
| <u>L1</u> | bittor? near5 value? | 1 | <u>L1</u> |

END OF SEARCH HISTORY

| | | | |
|--------------|-------------------|----------------|----------|
| JP 07509796W | December 10, 1993 | 1994JP-0513664 | |
| JP 07509796W | | WO 9414113 | Based on |
| EP 673522B1 | December 10, 1993 | 1993WO-DE01184 | |
| EP 673522B1 | December 10, 1993 | 1994EP-0901746 | |
| EP 673522B1 | | WO 9414113 | Based on |
| DE 59305670G | December 10, 1993 | 1993DE-0505670 | |
| DE 59305670G | December 10, 1993 | 1993WO-DE01184 | |
| DE 59305670G | December 10, 1993 | 1994EP-0901746 | |
| DE 59305670G | | EP 673522 | Based on |
| DE 59305670G | | WO 9414113 | Based on |

INT-CL (IPC): G05B 13/02; G06F 7/60; G06F 9/44; G06F 15/18; G06F 15/20; G06F 17/00

ABSTRACTED-PUB-NO: DE 4241920A

BASIC-ABSTRACT:

In the method a fuzzy logic controller has two inputs (x1,x2) and an output (y1). The input output relationships are defined in terms of linguistic values, such as very small, small, medium, etc. that are expressed in terms of 'membership' functions. The control actions adopted by the fuzzy control are based 'if-then' rules that determine the required outputs from the system. A mathematical relationship is used to determine the form of the rules.

USE/ADVANTAGE - Improves determination of rules base.

ABSTRACTED-PUB-NO: EP 673522B

EQUIVALENT-ABSTRACTS:

Device to complete an incomplete rule base of a fuzzy regulator with at least one input and output variable (x1, x2, y), characterised in that the rule base for combinations of linguistic values of the input variables (x1, x2), with which no linguistic value of an output variable (y) is associated by way of the rules of the incomplete rule base, is extended by an implicit rule, the logical value of which in the conditional part depends on the logical values of the conditional parts of the rules of the incomplete rule base in such a way that it is largest when they supply the logical value zero, and smallest when they have the logical value 1, and which in the conclusion part contains a predetermined value of the output variable (y).

US 6360212B

In the method a fuzzy logic controller has two inputs (x1,x2) and an output (y1). The input output relationships are defined in terms of linguistic values, such as very small, small, medium, etc. that are expressed in terms of 'membership' functions. The control actions adopted by the fuzzy control are based 'if-then' rules that determine the required outputs from the system. A mathematical relationship is used to determine the form of the rules.

USE/ADVANTAGE - Improves determination of rules base.

CHOSEN-DRAWING: Dwg.1/8 Dwg.1/8

DERWENT-CLASS: T01 T06

EPI-CODES: T01-J16B; T06-A05A1;

First Hit

Generate Collection

Print

L6: Entry 39 of 131

File: JPAB

Feb 14, 1995

PUB-NO: JP407044384A

DOCUMENT-IDENTIFIER: JP 07044384 A

TITLE: FUZZY INFERENCE DEVICE AND FUZZY DECISION TREE GENERATOR

PUBN-DATE: February 14, 1995

INVENTOR-INFORMATION:

NAME

COUNTRY

SAKURAI, SHIGEAKI

ASSIGNEE-INFORMATION:

NAME

COUNTRY

TOSHIBA CORP

APPL-NO: JP05187805

APPL-DATE: July 29, 1993

INT-CL (IPC): G06 F 9/44; G06 F 9/44

ABSTRACT:

PURPOSE: To provide the fuzzy inference device for estimating a characteristic value corresponding to an evaluation target by learning the judgement rules of a fuzzy decision tree form based on a training example, which characteristic value is applied as a numerical value or a fuzzy set, and using this learnt decision tree.

CONSTITUTION: When the training example is inputted from a training example input means 1, a representative value selecting means 2 selects plural representative values in behalf of the respective characteristic values of the training example. A training example converting means 3 converts each training example to a fuzzy example. A fuzzy decision tree generating means 4 generates a fuzzy decision tree based on the fuzzy example. A fuzzy decision tree storage means 5 stores the fuzzy decision tree. When the attribute data of the evaluation target are inputted from an evaluation target input means 6, an evaluating means 7 estimates the characteristic value corresponding to the attribute data of the evaluation target based on the fuzzy decision tree. An estimated result output means 8 outputs the estimated result.

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L6: Entry 53 of 131

File: JPAB

Jul 27, 1992

PUB-NO: JP404205530A
DOCUMENT-IDENTIFIER: JP 04205530 A
TITLE: FUZZY ARITHMETIC UNIT

PUBN-DATE: July 27, 1992

INVENTOR-INFORMATION:

NAME

COUNTRY

HARADA, YOSHIHISA

OTA, NORIKAZU

SHIGEMATSU, TAKASHI

TOKORO, SETSUO

ASSIGNEE-INFORMATION:

NAME

COUNTRY

TOYOTA CENTRAL RES & DEV LAB INC

TOYOTA MOTOR CORP

APPL-NO: JP02339009

APPL-DATE: November 30, 1990

INT-CL (IPC): G06F 9/44; G06F 7/544

ABSTRACT:

PURPOSE: To reduce the storage capacity by providing a fuzzy rule storage means and a membership function storage means separately from each other and having an access to the membership function stored in the membership function storage means in accordance with the function specifying value outputted from the fuzzy rule storage means.

CONSTITUTION: The rules stored in an input rule storage means 5 for each input function, that is, the function specifying values which specify the membership functions forming those rules are successively read out. These function specifying values are inputted to the input membership function storage means 3 and 4 corresponding to the input variables as the access signals together with these input variables. Thus the function values corresponding to the input variables of the membership functions specified by the function specifying values corresponding to each rule are successively outputted from both means 3 and 4. These outputted function values are defined as the adaptation degrees of the fuzzy rules of the input variables of each rule. As a result, an arithmetic processing operation can be carried out at a high speed and at the same time the increase of hardware quantity can be suppressed in a real time fuzzy control system that has the large numbers of input variables and rules.

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L6: Entry 75 of 131

File: EPAB

Nov 29, 1995

PUB-NO: EP000684549A1

DOCUMENT-IDENTIFIER: EP 684549 A1

TITLE: Method for parallel processing of fuzzy logic inference rules and corresponding circuit architecture with fuzzy inputs and outputs.**Search Forms****Search Results**

PUBN-DATE: November 29, 1995

Help

INVENTOR INFORMATION:

NAME

Preferences

GIACALONE, BIAGIO

CATANIA, VINCENZO

LUZZI, CLAUDIO

MATRANGA, VINCENZO

COUNTRY

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ASSIGNEE-INFORMATION:

NAME

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APPL-NO: EP94830240

APPL-DATE: May 23, 1994

PRIORITY-DATA: EP94830240A (May 23, 1994)

INT-CL (IPC): G06 F 7/60

EUR-CL (EPC): G06N007/04

ABSTRACT:

CHG DATE=19990617 STATUS=O> Method of parallel processing of multiple inference rules (R) organized in fuzzy sets or logical functions of multiple fuzzy sets comprising membership functions (I') defined in a so-called universe of discourse (U) and said inference rules (R) being configured essentially as IF-THEN rules with at least one antecedent preposition and at least one consequent implication and each preposition comprising at least one term (T) of comparison between membership functions (I') and a plurality of input data (I) and each term (T) being separated by logical operators (OL). The method comprises at least one phase of calculation of the weight (OMEGA) of each term (T) of the antecedent part of each fuzzy logic inference rule as the greatest value of the intersection between the set of input

data (I) and the corresponding membership functions (I').

